

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P292776

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292776  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-26)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-32-FGW080-UNV-L82765-W2A1-U-3000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2541.0 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

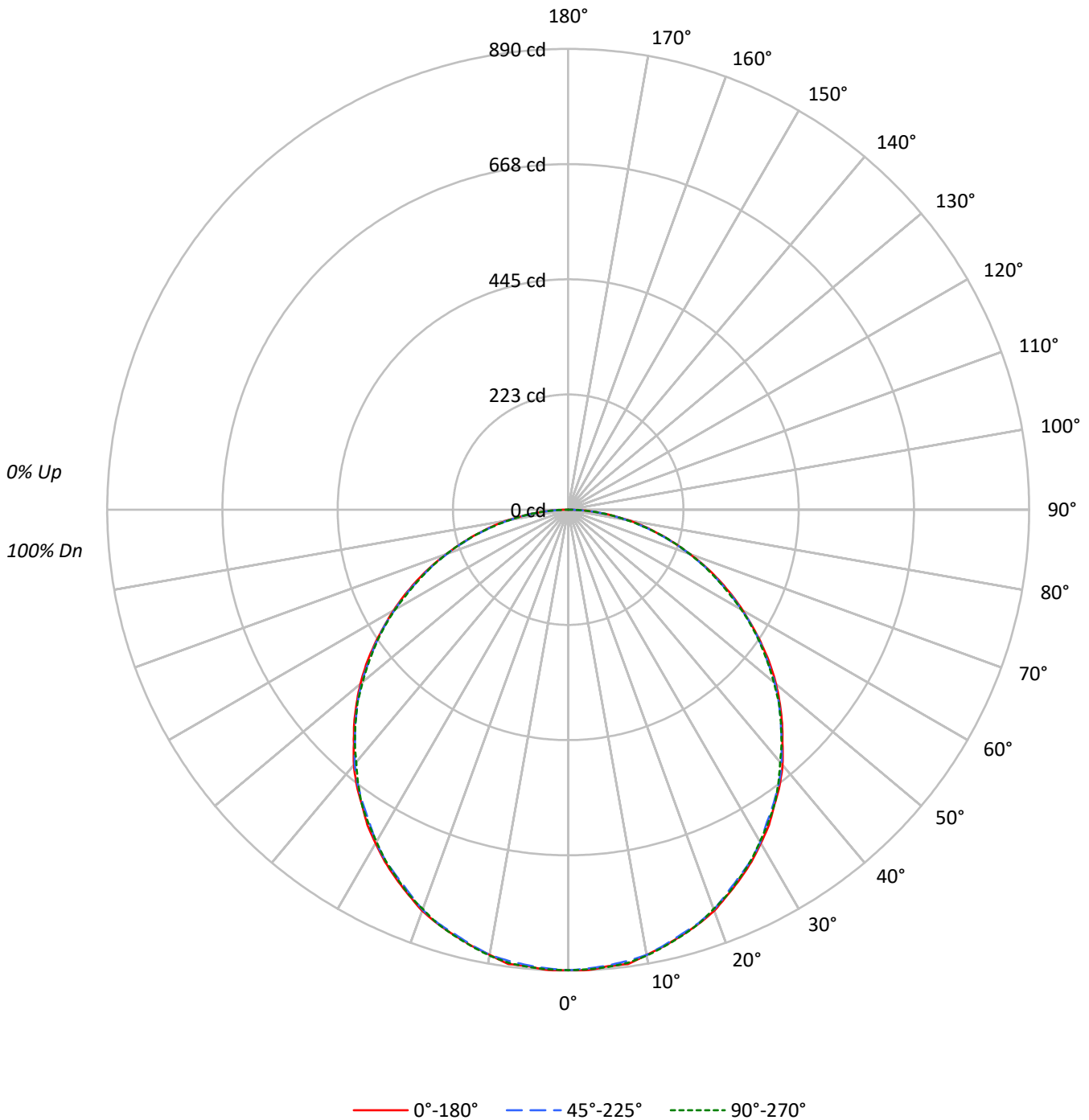
Input Watts (W): 24.366  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2393	2393	2393
5°	2390	2386	2394
10°	2385	2385	2390
15°	2370	2363	2372
20°	2361	2355	2350
25°	2335	2322	2328
30°	2312	2304	2300
35°	2282	2272	2282
40°	2262	2251	2236
45°	2223	2209	2209
50°	2193	2180	2168
55°	2146	2132	2128
60°	2096	2084	2076
65°	2043	2019	2010
70°	1961	1955	1961
75°	1893	1869	1885
80°	1874	1781	1770
85°	1658	1612	1636



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.1	3.3
10°-20°	240.1	9.4
20°-30°	361.5	14.2
30°-40°	433.8	17.1
40°-50°	448.9	17.7
50°-60°	406.7	16.0
60°-70°	315.3	12.4
70°-80°	191.4	7.5
80°-90°	59.2	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	685.7	27.0
0°-40°	1119.5	44.1
0°-60°	1975.1	77.7
0°-90°	2541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2541.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	889	889	889	889	889	
5°	885	885	883	886	886	84
15°	851	851	848	852	851	240
25°	786	785	782	785	784	363
35°	695	695	692	692	695	435
45°	584	584	580	580	580	451
55°	457	457	454	454	454	409
65°	321	321	317	319	316	317
75°	182	181	180	180	181	194
85°	54	53	52	52	53	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	889.4	889.4	889.4	889.4	889.4
2.5°	890.1	886.4	887.1	888.6	888.6
5°	884.9	884.9	883.4	885.6	886.4
7.5°	884.9	881.2	878.9	881.2	882.7
10°	873.0	871.5	873.0	872.2	874.5
12.5°	862.5	861.0	861.0	863.3	863.3
15°	850.6	850.6	848.3	852.1	851.3
17.5°	838.6	838.6	837.1	837.1	838.6
20°	824.5	820.7	822.2	821.5	820.7
22.5°	805.1	802.8	801.3	803.6	804.3
25°	786.4	784.9	781.9	784.9	784.2
27.5°	766.3	764.8	764.0	762.5	764.0
30°	743.9	742.4	741.6	740.1	740.1
32.5°	721.5	718.5	714.8	718.5	717.8
35°	694.6	694.6	691.7	692.4	694.6
37.5°	670.8	669.3	667.8	665.5	666.3
40°	643.9	641.7	640.9	639.4	636.4
42.5°	612.6	612.6	609.6	610.3	609.6
45°	584.2	583.5	580.5	580.5	580.5
47.5°	554.4	553.6	551.4	549.9	551.4
50°	523.8	520.8	520.8	518.6	517.8
52.5°	491.7	489.5	486.5	487.2	485.7
55°	457.4	456.6	454.4	453.6	453.6
57.5°	423.0	423.8	422.3	419.3	420.1
60°	389.5	388.7	387.2	385.7	385.7
62.5°	355.2	355.2	352.2	352.2	349.2
65°	320.8	320.8	317.1	318.6	315.6
67.5°	286.5	285.8	283.5	282.8	283.5
70°	249.2	249.9	248.5	248.5	249.2
72.5°	215.6	214.9	214.1	214.1	215.6
75°	182.1	181.3	179.8	179.8	181.3
77.5°	151.5	147.7	147.0	148.5	146.2
80°	120.9	115.6	114.9	114.2	114.2
82.5°	85.1	82.8	83.6	82.8	84.3
85°	53.7	53.0	52.2	52.2	53.0
87.5°	25.4	23.9	23.9	23.1	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)